

EVT-036

**DX COIL
TOTAL UNIT COOLING CAPACITY**

EVT-036

EVT-036 TOTAL UNIT COOLING CAPACITY -- DIRECT EXPANSION COIL																								
SUMMER APPLICATION RATINGS - ENTHALPY WHEEL														PERFORMANCE RATINGS - DIRECT EXPANSION COIL						UNIT PERFORMANCE				
AIR VOLUME (cfm)	OA CONDITIONS			RA CONDITIONS		EFFECTIVENESS		AIR--LVG WHL / ENT DXC		COOLING CAP--ENTHALPY WHEEL				REFRIGERANT DATA		LVG AIR TEMP		COOLING CAP--DX COIL			COMBINED COOLING CAP			
	DB (deg F)	RH (%)	WB (deg F)	DB (deg F)	WB (deg F)	LATENT (%)	SENS (%)	DB (deg F)	WB (deg F)	SENS (Btuh)	LATENT (Btuh)	TOTAL (Btuh)	S/T	SUC TEMP (deg F)	PR DROP (psi)	DB (deg F)	WB (deg F)	TOTAL (Btuh)	SENS (Btuh)	S/T	TOTAL (Btuh)	SENS (Btuh)	S/T	
2400	80	5	50.4	75.0	47.8	66.91	73.28	76.26	48.45	9,364	1,370	10,734	0.87	40	2.04	56.0	38.2	52,670	52,670	1.00	63,404	62,034	0.98	
		40	63.5		59.6	67.00	73.36	76.26	60.72	9,336	10,836	20,172	0.46	45	1.41	59.0	39.8	44,740	44,740	1.00	55,474	54,104	0.98	
		75	73.8		69.2	67.10	73.44	76.26	70.57	9,307	20,139	29,446	0.32	50	0.92	62.1	41.4	36,740	36,740	1.00	47,474	46,104	0.97	
	95	5	57.7	75.0	47.8	67.21	73.57	80.00	50.53	37,323	6,362	43,685	0.85	40	2.44	56.6	52.1	58,390	51,030	0.87	78,562	60,366	0.77	
		40	75.1		59.6	67.35	73.68	79.98	64.53	37,193	53,843	91,036	0.41	45	1.42	59.0	54.2	44,890	44,890	1.00	65,062	54,226	0.83	
		75	87.7		69.2	67.48	73.79	79.95	75.42	37,062	102,907	139,969	0.26	50	0.92	62.1	55.4	36,730	36,730	1.00	56,902	46,066	0.81	
	110	5	64.6	75.0	47.8	67.5	73.8	83.65	52.67	65,084	14,177	79,261	0.82	40	5.83	60.5	58.9	96,660	40,890	0.42	126,106	50,197	0.40	
		40	86.8		59.6	67.7	74.0	83.60	69.10	64,815	119,306	184,121	0.35	45	4.10	62.5	60.8	82,710	35,890	0.43	112,156	45,197	0.40	
		75	101.7		69.2	67.9	74.2	83.55	81.41	64,543	232,054	296,597	0.22	50	2.71	64.4	62.7	68,270	30,950	0.45	97,716	40,257	0.41	
	3000	80	5	50.4	75.0	47.8	61.22	68.83	76.49	48.58	10,990	1,567	12,557	0.88	40	2.48	57.4	39.4	58,550	58,550	1.00	102,235	95,873	0.94
			40	63.5		59.6	61.35	68.93	76.48	60.92	10,960	10,401	21,361	0.51	45	1.75	60.5	40.9	50,630	50,630	1.00	94,315	87,953	0.93
			75	73.8		69.2	61.47	69.03	76.48	70.82	10,930	23,060	33,990	0.32	50	1.20	63.5	42.5	42,660	42,660	1.00	86,345	79,983	0.93
95		5	57.7	75.0	47.8	61.62	69.19	80.88	51.00	43,807	7,284	51,091	0.86	40	3.58	59.0	54.5	72,750	54,480	0.75	163,786	91,673	0.56	
		40	75.1		59.6	61.79	69.33	80.85	65.36	43,669	61,683	105,352	0.41	45	2.28	61.1	55.6	58,890	49,020	0.83	149,926	86,213	0.58	
		75	87.7		69.2	61.96	69.47	80.82	76.49	43,529	119,024	162,553	0.27	50	1.22	63.4	58.8	43,060	43,060	1.00	134,096	80,253	0.60	
110		5	64.6	75.0	47.8	62.0	69.5	85.17	53.49	76,398	16,248	92,646	0.82	40	7.97	64.0	62.7	116,100	41,570	0.36	256,069	78,632	0.31	
		40	86.8		59.6	62.2	69.7	85.10	70.61	76,106	136,814	212,920	0.36	45	5.92	65.7	64.5	102,300	37,020	0.36	242,269	74,082	0.31	
		75	101.7		69.2	62.5	70.0	85.03	83.26	75,811	266,272	342,083	0.22	50	4.18	67.5	66.2	87,710	32,410	0.37	227,679	69,472	0.31	
3600		80	5	50.4	75.0	47.8	55.52	64.37	76.71	48.70	12,327	1,705	14,032	0.88	40	2.87	59.8	40.7	68,370	68,370	1.00	119,461	112,177	0.94
			40	63.5		59.6	55.67	64.48	76.70	61.13	12,298	13,505	25,803	0.48	45	2.11	61.9	42.5	59,950	59,950	1.00	111,041	103,757	0.93
			75	73.8		69.2	55.82	64.60	76.70	71.06	12,269	25,129	37,398	0.33	50	1.62	65.2	43.5	50,770	50,770	1.00	101,861	94,577	0.93
	95	5	57.7	75.0	47.8	56.01	64.81	81.75	51.47	49,158	7,940	57,098	0.86	40	4.58	61.5	56.4	84,020	62,730	0.75	189,372	106,399	0.56	
		40	75.1		59.6	56.22	64.98	81.72	66.18	49,023	67,287	116,310	0.42	45	3.03	63.2	58.1	69,420	57,250	0.82	174,772	100,919	0.58	
		75	87.7		69.2	56.42	65.15	81.69	77.45	48,886	128,767	177,653	0.28	50	1.67	65.2	60.1	51,750	50,810	0.98	157,102	94,479	0.60	
	110	5	64.6	75.0	47.8	56.5	65.2	86.67	54.28	85,762	17,737	103,499	0.83	40	9.95	66.8	65.4	132,300	45,630	0.34	294,853	89,159	0.30	
		40	86.8		59.6	56.8	65.5	86.59	72.05	85,475	149,486	234,961	0.36	45	7.46	68.3	66.9	117,200	40,950	0.35	279,753	84,479	0.30	
		75	101.7		69.2	57.1	65.7	86.51	85.02	85,182	291,193	376,375	0.23	50	5.38	69.7	68.3	101,400	36,200	0.36	263,953	79,729	0.30	

NOTES: 1. Entering liquid temperature is constant at 110°F. 2. Coil face area is 6.88 sq. ft. 3. All data based on balanced system (Exhaust cfm = Supply cfm).